

### 2003 Amendments

The following table lists the codes, paragraph, and pages in which the 88<sup>th</sup> National Conference on Weights and Measures made amendments. In the column headed “Action,” changes are noted as “added,” “amended,” “deleted,” or “renumbered.” Each code, section, or paragraph that has been changed will be noted as “Added 2003” or “Amended 2003.”

SECTION	CODE	S&T ITEM NO.	PARAGRAPH	ACTION	PAGE
1.10.	General	310-1A	G-S.1.(d)	Amended	1-2
			G-S.1.(e)	Added	1-2
			G-S.1.1.	Added. Subsequent paragraphs renumbered.	1-2
2.20.	Scales	320-2	S.1.2.3.	Added	2-4
			S.2.5.3.	Added	2-12
			Table 3, Footnote 2	Amended	2-14
			Table S.6.3.b. Note 13	Amended	2-17
			S.6.6.	Added	2-15
			N.1.10.	Added	2-23
			T.N.3.10., Table T.N.3.10.	Added	2-32
			UR.3.5., Footnote to UR.3.5.	Amended	2-39
		320-5	UR.3.11., UR.3.12.	Added	2-39
			Table S.6.3.a., Note 22	Amended	2-18
			N.1.3.4.	Amended	2-19
			N.1.3.4.	Renumbered body of text to N.1.3.4.1.(a). Renumbered successive sections.	2-19
			N.1.3.4.1.(a), (b), and (c) (new numbers)	Amended	2-19 to 2-20
			N.1.3.4.2.	Added	2-20
			N.1.3.8.	Amended	2-21 to 2-22
			N.1.3.8.(a), (b)	Added	2-22
		320-7	T.N.8.3.1.(a)	Amended	2-34
		320-10B	N.1.11.	Added	2-23
			T.N.3.11.	Added	2-32
		320-10C	Table 4, Footnote 3	Amended	2-24
N.1.12.	Added		2-23		
T.N.3.12.	Added		2-32		
3.30.	Liquid-Measuring Devices	330-2	S.4.4.	Amended	3-12
		330-5	UR.3.6.3.	Added	3-19
3.31.	Vehicle-Tank Meters	330-2	S.5.2.	Added Note	3-25
		331-5	UR.1.4.	Added	3-27
3.32.	LPG & Anhydrous Ammonia Liquid-Measuring Devices	330-2	S.4.2.	Added Note	3-33
		332-1	T.2.	Amended	3-35
			Table T.2.	Added	3-35
3.33.	Hydrocarbon	333-1	T.1.	Amended	3-43

SECTION	CODE	S&T ITEM NO.	PARAGRAPH	ACTION	PAGE
	Gas Vapor-Measuring Devices		Table T.1.	Added	3-43
3.34.	Cryogenic Liquid-Measuring Devices	334-1	T.2.	Amended	3-51
			T.2.1., T.2.2.	Deleted	
			Table T.2.	Added	3-51
3.35.	Milk Meters	330-2	S.4.2.	Added Note	3-57 to 3-58
3.36.	Water Meters	336-1	N.3., N.4.1., N.4.2.	Amended	3-63
			Table 1., Table 2.	Deleted	
			Table N.4.1., Table N.4.2.	Added	3-63 to 3-64
		T.1.	Amended	3-64	
		Table T.1.	Added	3-64	
		336-2	S.2.3.	Added	3-62
	Table T.1	Added	3-64		
3.38.	Carbon Dioxide Liquid-Measuring Devices	338-1	S.4.2.	Added Note	3-80
			T.2.	Amended	3-85
			T.2.1., T.2.2.	Deleted	
			Table T.2.	Added	3-85
5.56.(a)	Grain Moisture Meters	356(a)-1	A.1.	Amended	5-27
			S.1.1.(c)-(f)	Amended	5-27
			S.1.3.(c)	Amended	5-28
			S.1.4.	Amended	5-28 to 5-29
			S.2.4.1.	Amended	5-29
			S.2.6.	Amended	5-31
			S.4.(d)	Amended	5-31
			N.1.1., N.1.2., N.1.2.(a)	Amended	5-31
			N.1.2.(b)	Added	5-31
			T.3.	Amended	5-32
			Table T.3.	Added	5-32
UR.1.1.	Amended	5-33			
UR.3.4.(b)	Amended	5-33			
5.56.(b)	Grain Moisture Meters	356(a)-2	T.3.	Amended	5-39
5.57.	Near-Infrared Grain Analyzers	357-1	S.1.1.(c), S.1.1.(e)	Amended	5-41
			S.1.1.(h)	Added	5-42
		357-2	S.1.2.	Amended	5-42
Appendix D	Definitions	310-1	Built-for-Purpose Device	Added	D-3
		320-9	Concentrated Load Capacity (CLC); Dual Tandem Axle Capacity	Amended	D-4
		320-10A	Substitution Test	Added	D-18
			Substitution Test Load	Added	D-18
		334-1	Cryogenic Liquid-Measuring Device	Amended	D-5
		336-2	Multi-Jet Water Meter	Added	D-11

## 2003 Editorial changes

SECTION	CODE	PARAGRAPH	ACTION	PAGE
1.10.	General	G-S.1.(h)	Edited text in first sentence to clarify that devices with NTEP CCs must be marked with the CC number.	1-2
		G-S.1.1.	Added title "Location of Marking Information" to clarify application of paragraph.	1-2
2.20.	Scales	S.6.1.	Insert the word "and" (which was inadvertently omitted when the paragraph was amended in 2003) between "vehicle" and "axle-load."	2-15
		S.1.12.	Added the term "gross" (which was inadvertently omitted from the 2003 edition) into "manual weight value."	2-9
		S.1.2.3.	Modified end of lead sentence to clarify paragraph defines criteria for sample used to determine individual piece weight.	2-4
		T.2.6.	Added T.2.6. Grain Test Scales, which was inadvertently omitted from the 2003 edition.	2-27
		N.1.3.4.(c)	Changed "weighing element" to "load-receiving element."	2-20
		N.1.3.8.(a) & (b)	Edited lead of paragraph for clarity.	2-21 to 2-22
		Table S.6.3.b., Note 13	Deleted references to specific paragraphs addressing counting features and replaced with generic reference to counting feature requirements.	2-17
		Table S.6.3.b., Note 14	Eliminated italics from references to railway track scales. Eliminated italics from second sentence to clarify proper application of marking requirements for scales manufactured between 1989 and 2003.	2-18
		S.6.5.	Added text to clarify marking requirements for livestock scales manufactured before 1989 and after 2003 and for scales manufactured between 1989 and 2003. Added reference to Table S.6.3.b. Note 14.	2-15
		S.6.6.	Inserted "individual" with term "piece weight." Changed "Number of Pieces" to "Sample Piece Count" in title for consistency with related paragraph.	2-15
		N.1.10.	Added text to first sentence to clarify that test is only to be conducted on counting features used in "legal for trade" applications.	2-23
		T.N.3.10.	Deleted "maintenance and acceptance tolerances are the same" to eliminate redundancy with the Table Title.	2-32
		T.N.8.3.1.	Edited text to clarify application.	2-34
		UR.3.11.	Changed format to clarify that use of counting feature is not acceptable below 30 e.	2-39
		UR.3.12.	Deleted reference to average to be consistent with terminology in other paragraphs addressing counting features. Split into two sentences to clarify user is always responsible for maintaining correct stored piece weight. Added reference to "different lots."	2-39

SECTION	CODE	PARAGRAPH	ACTION	PAGE
3.30.	Liquid-Measuring Devices	S.2.2.	Added text to clarify that a seal must be broken before an adjustment can be made. Eliminated “c” designation to improve flow of paragraph.	3-8
		UR.3.6.3.	Modified title of paragraph for clarity and consistency with UR.3.6.3.	3-19
		Table T.2.	Modified note regarding tolerances for 5-gallon and 10-gallon test drafts to clarify application.	3-15
3.31	Liquid-Measuring Devices	Table T.2	Modified note regarding tolerances for 5-gallon and 10-gallon test drafts to clarify application.	3.26
3.32.	LPG & Anhydrous Ammonia Liquid-Measuring Devices	Table T.2.	Deleted reference to “where applicable” to eliminate redundancy.	3-35
3.34.	Cryogenic Liquid-Measuring Devices	Table T.2.	Deleted reference to “where applicable” to eliminate redundancy.	3-51
		S.4.	Deleted paragraph S.4., Level Condition, On-Board Weighing System, and renumbered successive section S.5. Marking Requirements. Existing S.4. should have been deleted when references to on-board weighing systems were added to the Scales Code in 1995 under Item 320-3.	
3.35.	Milk Meters	S.4.2.	Added term “marked” to second sentence to clarify intended application.	3-57
3.36.	Water Meters	S.2.3.	Clarified that marking on device must be permanent.	3-62
		Table T.1.	Deleted reference to “where applicable” to eliminate redundancy. Modified Special Test Tolerance Heading to correspond to N.4.2.	3-64
3.38.	Carbon Dioxide Liquid-Measuring Devices	A.4.	Added A.4. Type Evaluation, which was inadvertently omitted from the 2003 edition.	3-77
		N.4.4., UR.2.3.	Corrected reference to Table 2 to N.4.4.	3-80
		S.5.	Deleted paragraph S.5., Level Condition, On-Board Weighing System, which should have been deleted when references to on-board weighing systems were added to the Scales code in 1995 under Item 320-3.	
		D. Definitions	Definitions moved to Appendix D	D-1 to D-21
5.56.(b)	Grain Moisture Meters	S.1.6.3.	Corrected format by deleting (a) designation and joining text with body of paragraph.	5-37
		UR.1.2.	Added text from G-UR.1.2. for ease of reference.	5-39
		S.3.4, T.3.	Changed references to “test weight per bushel” from “test weight per volume” to make reference more generic.	5-38 to 5-39
Appendix D	Definitions		Multi-interval scale – added (segments) and (segment) to clarify definition.	D-11